

WHAT IS CLAIMED IS:

1. rec-L-N-carbamoylase from *Arthrobacter aurescens* and mutants thereof.
2. An amino acid sequence of the carbamoylase according to claim 1.
3. The amino acid sequence of claim 2 which is SEQ ID NO:2.
4. A nucleotide sequence encoding the amino acid sequence according to claim 2.
5. The nucleotide sequence of claim 4 which is SEQ ID NO:1.
6. A vector comprising the nucleotide sequence according to claim 4.
7. A plasmid comprising the nucleotide sequence according to claim 4.
8. A host cell comprising the nucleotide sequence according to claim 4.

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C 9. A method of producing L-amino acids with carbamoylases according to claim 1.

C 10. The method according to claim 9, wherein N-carbamoyl- or N-formyl amino acids are reacted.

C 11. The method according to claim 9, wherein the N-carbamoyl amino acids are produced with hydantoinases from the corresponding hydantoins.

C 12. The method according to claim 11, wherein the hydantoins used are constantly racemized by enzymatic or chemical methods.

C 13. The method according to claim 9, wherein the work is carried out in an enzyme membrane reactor.

C 14. The method according to claims 9, 10 or 11, wherein the enzymes used are immobilized on carriers.

C 15. The method according to claim 14, wherein the rec-L-N-carbamoylase is covalently immobilized on EAH-sepharose.

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